



OPERATING POLICY 5

FIRE PROTECTION OF PIERS



Kirkland Fire/Building Department • 123 Fifth Avenue, Kirkland, WA 98033 • (425) 587-3650

The purpose of this policy is to provide information regarding the City of Kirkland's requirements for fire protection on piers serving five or more boats. The following documents shall be used in conjunction with this policy for reference and information:

- *International Fire Code* Chapter 45 Marinas and
- *NFPA 303* Fire Protection Standard for Marinas and Boatyards

When the distance from where a fire truck can rest safely to the outboard end of the pier exceeds 250 feet, a standpipe system shall be installed. A permit shall be obtained from the Kirkland Fire Department prior to installation.

The standpipe system shall be a DRY CLASS I system with hose connections located such that no point on the pier exceeds 150 feet from a standpipe hose connection. It shall consist of pipe no less than 4" in diameter, and be sized so that a minimum of 500 gallons of water per minute will be available at the discharge valve most distant from shore, with a total friction loss no greater than 50 PSI.

The system shall be installed with substantial hangers, and protected from damage by boats. It shall be provided with a fire department Siamese on the shore end with two clappered female swivel connections with 2½" NST.

Brass gate valves are to be installed so that no part of the pier is more than 120 feet from any valve. These gate valves shall be male, with 2½" NST. Both Siamese and gate valves shall have either pin or rocker lug caps. Under certain conditions, more than one 2½" discharge valve may be required. The decision to require more than one discharge valve shall be that of the Kirkland Fire Department, and shall be based on the type of construction, pier superstructure, and type of vessels to be moored at the pier.

The system shall be equipped with a drain valve or valves, located at the lowest point in the system, which will permit the system to be completely drained of water.

A hydrostatic test of 200 PSI for two (2) hours with no leakage shall be performed at intervals not exceeding 5 years.

In addition, one portable fire extinguisher of a 2-A:20-B:C rating shall be installed at each standpipe outlet.

*Policy Approved 5/24/11 by
Grace A. Steuart, Fire Marshal
Kirkland Fire Department*